

NS6130-02-234

YTTRIUM ALUMINUM

Garnet

Quick Facts

| | | |
|-------------------|---|-------------------------|
| Product | : | Yttrium Aluminum Garnet |
| Stock No | : | NS6130-02-234 |
| CAS | : | N/A |
| Molecular Formula | : | $Y_3Al_5O_{12}$ |
| Form | : | Powder |

Purity
99.5%

Technical Specification

| Molecular Weight | Density | Melting Point | APS |
|------------------|------------------------|---------------|------|
| 733.73g/mol | 4.55 g/cm ³ | 1970°C | 30nm |

Yttrium aluminum garnet (YAG, $Y_3Al_5O_{12}$) Monocrystals. Yttrium aluminum garnet (YAG) (chemical composition $Y_3Al_5O_{12}$) is a well-known host material for obtaining highly efficient luminescent materials. Their good chemical and physical properties: the unique cubic structure of garnet and subsequent optically isotropic properties as well as excellent chemical stability at elevated temperature. Yttrium aluminum oxide powder is known for its high thermal stability and insolubility hence it is most suited for ceramic, glass and optic applications. Ceramic structures made using this powder are used in making simple clay bowls to complex electronic components.

- ✓ Used in building structural & aerospace
- ✓ Active optical filters
- ✓ Cathode materials for alkaline batteries
- ✓ Pigments for ceramics and glasses
- ✓ Temperature sensors
- ✓ Water treatment and fuel cell applications
- ✓ Used for manufacturing a down converter in white light LEDs.
- ✓ Automotive rear-view mirrors with adjustable reflectance



$Y_3Al_5O_{12}$
APS 30nm



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20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015
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